US Army Corps of Engineers®

Flood Protection in the Tug and Levisa Fork River Basins

Sec 202 of the Energy and Water Development Appropriation Act of 1981 (P.L. 96-367)

The Coal Building in Williamson, WV

HUNTINGTON DISTRICT
Floodwall Projects

PROJECT	COMPLETED
South Williamson KY	Yes
Williamson WV	Yes
Matewan WV	Yes
West Williamson WV	Yes

STRUCTURAL ALTERNATIVES

STRUCTURAL ALTERNATIVES

HUNTINGTON DISTRICT
Non-Structural Projects

PROJECT	COMPLETED	REMAINING
South Williamson KY	199	Comp
Williamson WV	153	Comp
Matewan WV	51	Comp
Hatfield Bottom WV	33	Comp
Pike County KY	256	9
Martin County KY	118	251
Wayne County WV	40	13
Lower Mingo County WV	381	10
Upper Mingo County WV	107	10
McDowell County WV	32	400
Grundy VA	3	42

Flood Proofing

Any combination of structural or non-structural additions, changes, or adjustments which reduce or eliminate flood damages to lands, structures, and contents of buildings.

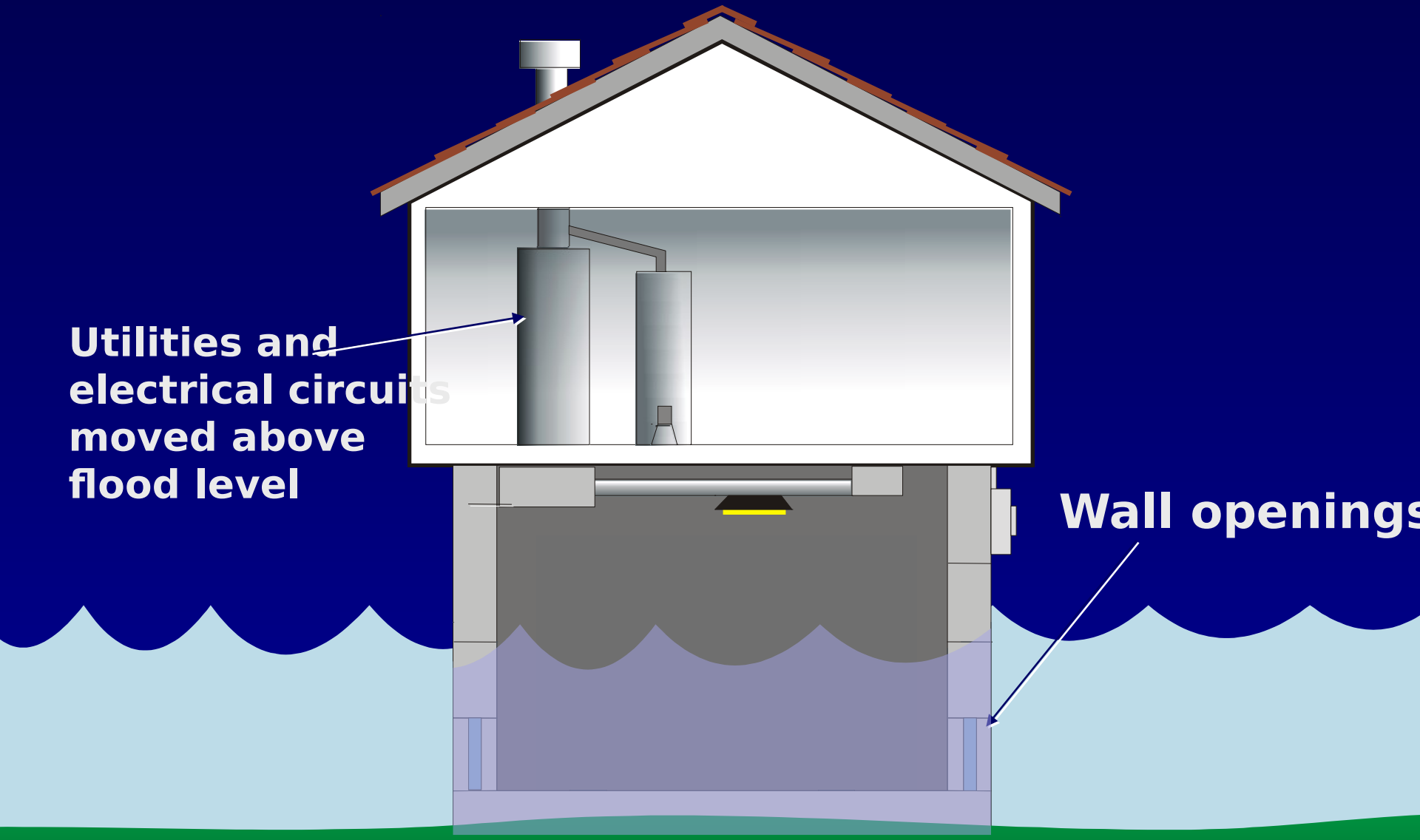
Flood Proofing Measures

- Elevation
- Relocation
- Barriers (Ringwalls)
- Flood Proofing
- Buyout/Acquisition

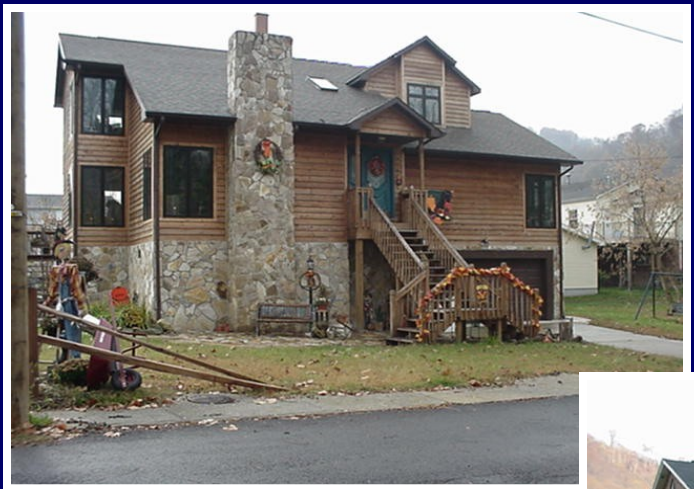
Considerations

- Elevation Height
- Flood Characteristics
- Building Type, Condition, &Value
- Access
- Utilities
- Aesthetics

Elevating the Structure



ELEVATION ON EXTENDED FOUNDATION WALLS



ELEVATING ON FILL

Floodproofing from modest value to…

To average value

High Value

Concern about structure values

Extremes

Extremes

Access issues are common

Handicap access considerations

Handicap access on smaller scale

Home owner betterments

Before and After

After

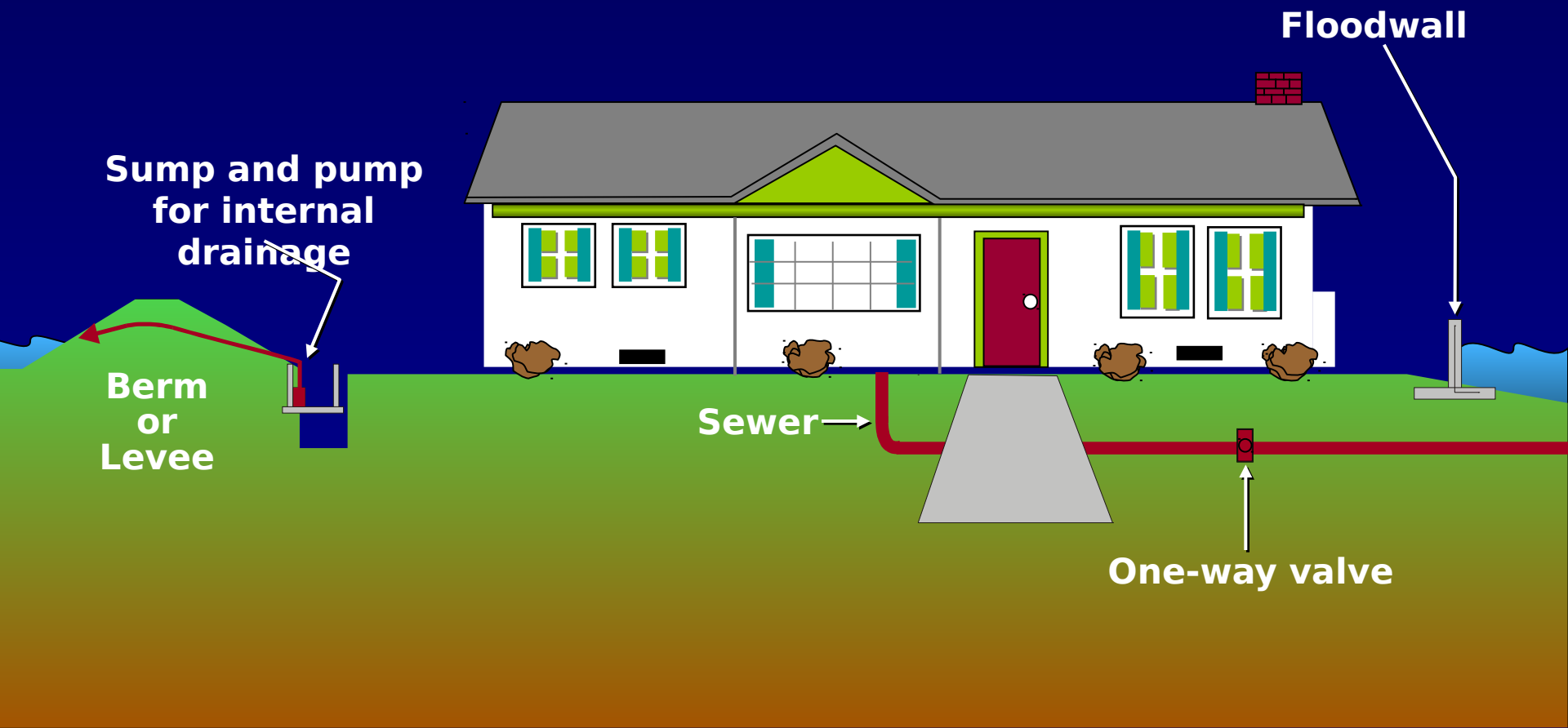
Before

A positive example

RELOCATION

RELOCATION

Ringwalls and Berms

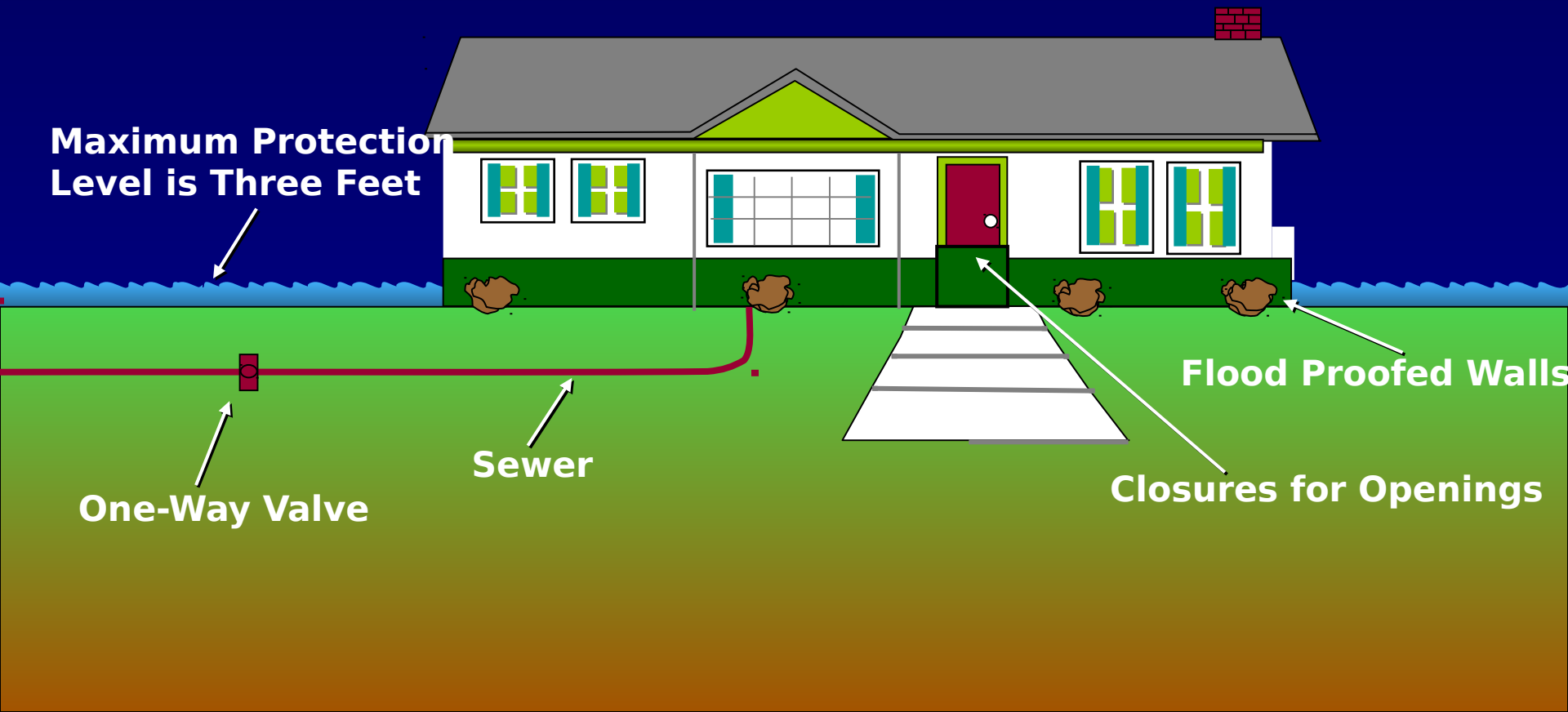


Ringwall

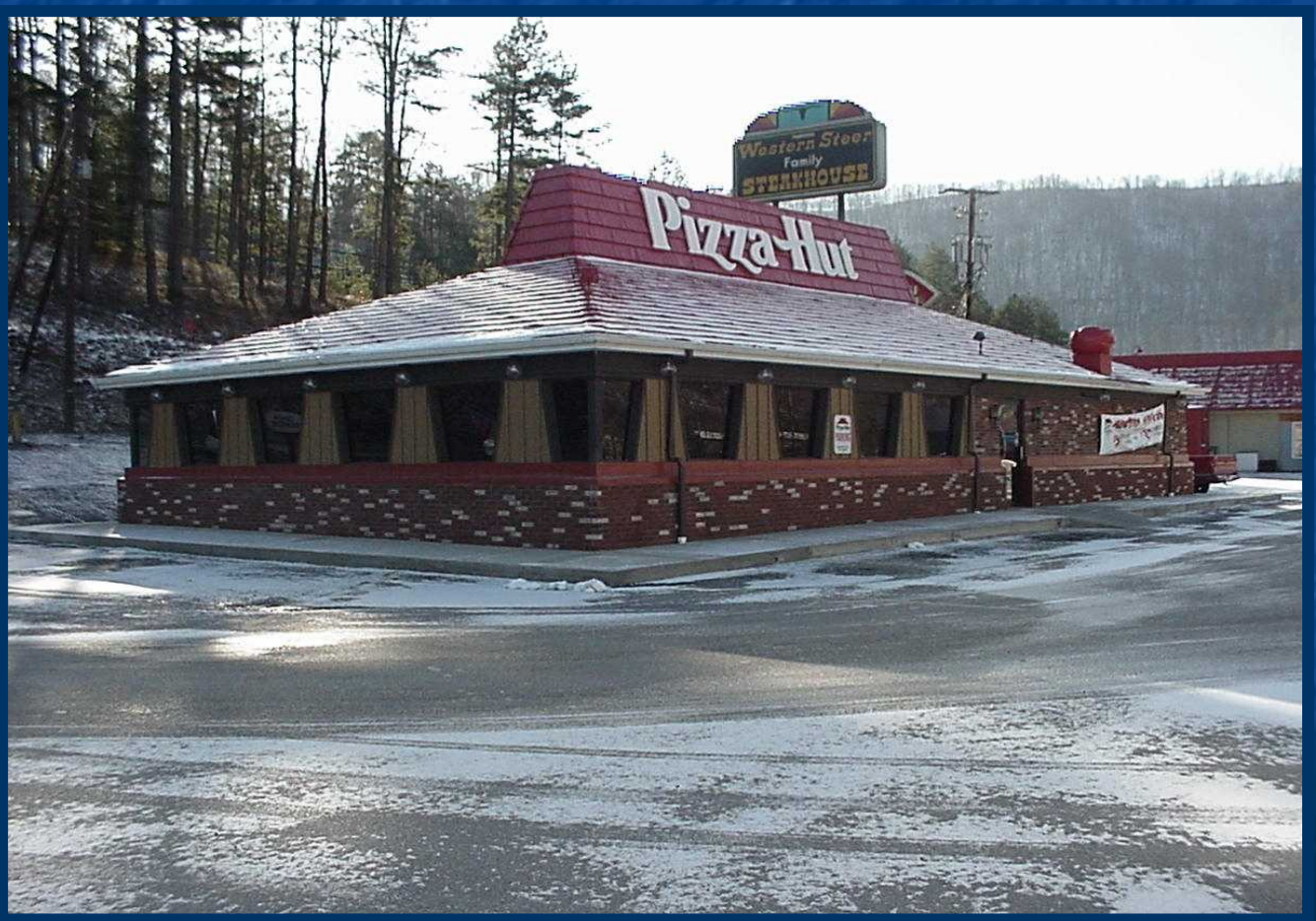
SAFETY SYSTEMS DIVISION
UPS DIVISION

SAFETY SYSTEMS DIVISION
UPS DIVISION

Other FP Methods



Veneer Walls



HUNTINGTON DISTRICT
Future Projects

- **New Projects and Studies**
  - **Town of Martin** – 203 structures (floodproofing/acquisition)
    - Includes relocation of Town
  - **Buchanan County VA** – 732 structures (floodproofing/acquisition
  - **Dickenson County VA** – 360 structures (floodproofing/acquisition)
    - Possible relocation of town
  - **Pike County KY** – 2000 structures (floodproofing/acquisitions)
    - Includes possible structural components
  - **Floyd County KY** – 2500 structures (floodproofing/acquisitions)
    - Includes possible structural components
- **NOT YET SCHEDULED**
  - **Johnson County KY –** 700 structures (floodproofing/acquisitions)
  - **Lawrence County KY** – 100 structures (floodproofing/acquisitions)